PME RESEARCH LABORATORY, MAY 1980

PROJECT TITLE : ANALYTICAL INVESTIGATIONS

PERIOD COVERED : APRIL 29 - MAY 28, 1980

WRITTEN BY : E. LECOULTRE

AMINO ACID ANALYSIS

- Free and protein-bound amino acids were quantitatively analyzed in tobacco of nine experimental cigarettes submitted by PM Richmond (1). Protein-bound amino acids were determined after acidic hydrolysis (6N HCl/110° C/48 h), free amino acids after extraction of tobacco with an alcohol/water 80:20 mixture for 12 hours at room temperature (2).

- Amino acids were analyzed in 80 probes submitted by Product Research.

TRIACETIN ESTROBOND B (3)

Work has been continued by preparing two MLF with 1.1 % and 1.35 % glycerol-propionate-diacetate additive (covering now the range of concentrations 0.8, 1.1, 1.35 and 1.9 %) and testing them against Swiss MLF in panel B (4).

Due to the fact that the results obtained by the two panel tests (5) turned out to be contradictory, the cigarettes tested were sent to QC and to Product Research to check the triacetin concentrations in the CA filters.

MISCELLANEOUS

Phosphate (197 analyses), sulfate (150) and alcohols (44) were determined in various samples submitted by Biotechnology and Process Development.

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REFERENCES

(1) Memo of R.D. Carpenter to W. Fink, dated April 29, 1980

(2) N. Carugno et al., Beitr. Tabakforsch. 7, 222 (1974)

(3) Compare E. Lecoultre, PME Monthly Progress Report, April 1980

(4) Test de degustation No. 159, May 19, 1980

(5) Test de degustation No. N-76, April 21, 1980

E. Lecoultre

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